

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051453

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B7/24 G11B7/005 G11B7/135 G11B7/13 G11B7/24
G06K19/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 02, 28 February 1997 (1997-02-28) & JP 08 272923 A (TOPPAN PRINTING CO LTD), 18 October 1996 (1996-10-18) abstract ----- US 4 325 135 A (DIL ET AL) 13 April 1982 (1982-04-13) column 20, line 8 - line 49; figure 20 ----- US 5 392 271 A (MATSUI ET AL) 21 February 1995 (1995-02-21) abstract ----- -/-	1-10 11 11,12
X		
A		



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

8 April 2005

Date of mailing of the international search report

15/04/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 008, no. 275 (P-321), 15 December 1984 (1984-12-15) & JP 59 142758 A (SUWA SEIKOSHA KK), 16 August 1984 (1984-08-16) abstract -----	11,12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/051453

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 08272923	A	18-10-1996	NONE			
US 4325135	A	13-04-1982	NL AT AT AU AU BR CA CH DD DE DK ES ES FR GB IT JP JP JP NZ SE SE ZA	7906576 A 369578 B 443780 A 537557 B2 6192380 A 8005553 A 1150409 A1 662667 A5 153012 A5 3032769 A1 371780 A 8105108 A1 8201757 A1 2464532 A1 2058434 A ,B 1132631 B 1021543 B 1541102 C 56037835 A 194817 A 445960 B 8006065 A 8005225 A		05-03-1981 10-01-1983 15-05-1982 28-06-1984 12-03-1981 17-03-1981 19-07-1983 15-10-1987 16-12-1981 16-04-1981 04-03-1981 01-08-1981 16-03-1982 06-03-1981 08-04-1981 02-07-1986 21-04-1989 31-01-1990 11-04-1981 02-09-1983 28-07-1986 04-03-1981 28-04-1982
US 5392271	A	21-02-1995	JP JP	2817520 B2 6012714 A		30-10-1998 21-01-1994
JP 59142758	A	16-08-1984	JP JP	2054932 C 5006741 B		23-05-1996 27-01-1993